

ABSTRACT

A flange design providing improved strength, fracture resistance, and the like using corrugations extending substantially radially from an arbor aperture toward a rim portion. A spool or reel may include a tubular member to receive a stranded material wrapped therearound. A first flange comprising a core portion and an outer portion may secure to one end of the first flange engaging the tubular member. A second flange may secure to the other end of the tubular member. The core portion of a flange may comprise an arbor wall defining the perimeter of an arbor aperture. The arbor wall may be directly contacted and supported by a plurality of corrugations extending radially therefrom. The outer portion of a flange may contact the core portion and extending radially away therefrom to an outer edge to restrain the stranded material in an axial direction.

Docket: 2409.2.1.4

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